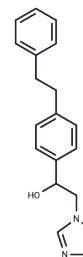


## Denzimol

## Chemical Properties

CAS No. :	73931-96-1
Formula:	C <sub>19</sub> H <sub>20</sub> N <sub>2</sub> O
Molecular Weight:	292.37
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Denzimol is a novel anticonvulsant compound. Denzimol is selective for tonic seizures.
Targets(IC50)	Others
In vivo	Denzimol (30 mg/kg; p.o.; 14 days; mice) reduced brain concentration and anticonvulsant activity compared with non-treated mice, and t <sub>1/2</sub> beta was significantly changed from 2.10 to 1.53 hr. Tonic hindlimb extension was completely abolished at a brain denzimol concentration higher than 15 mcg/g, whereas the minimum effective brain concentration was between 2-3 mcg/g both in acute and repeatedly treated animals. The brain concentration of denzimol is closely correlated with its anticonvulsant effect both in acute and repeatedly treated animals. Furthermore, these findings seem to suggest that the decreased anticonvulsant activity of denzimol, following repeated administrations, might be due to a development of pharmacokinetic tolerance.[4]

## Solubility Information

Solubility	DMSO: 16.67 mg/mL (57.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4203 mL	17.1016 mL	34.2032 mL
5 mM	0.6841 mL	3.4203 mL	6.8406 mL
10 mM	0.342 mL	1.7102 mL	3.4203 mL
50 mM	0.0684 mL	0.342 mL	0.6841 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Graziani G, et al. Denzimol, a new anticonvulsant drug. III. Toxicological evaluation. *Arzneimittelforschung*. 1983; 33(8):1168-1173.

Bertin D, et al. Determination of denzimol, a new anticonvulsant agent, and its main metabolite in biological material by gas chromatography and high-performance liquid chromatography. *J Chromatogr*. 1986;378(1):147-154.

Salmona M, et al. Interaction of the anticonvulsants, denzimol and nafimidone, with liver cytochrome P450 in the rat. *J Pharm Pharmacol*. 1988;40(1):17-21.

Abbiati GA, et al. Relationship between the brain levels and the anticonvulsant activity of denzimol after its acute and repeated administration to mice. *Pharmacol Res Commun*. 1987;19(2):153-161.

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